

Table 9 SUBTRANSMISSION SPECIFICATIONS

TRX125 AND FOURTRAX 125		
Item	Standard	Service limit
Gear bushing ID		
Reverse idle gear	15.000-15.018 mm (0.590-0.5913 in.)	15.1 mm (0.59 in.)
Reverse drive low gear	15.000-15.017 mm (0.590-0.5912 in.)	15.1 mm (0.59 in.)
Super low driven gear	20.000-20.021 mm (0.784-0.7882 in.)	20.1 mm (0.79 in.)
Reverse idle gear shaft	14.966-14.984 mm (0.5892-0.5899 in.)	14.93 mm (0.589 in.)
Shift fork ID	10.000-10.015 mm (0.394-0.3943 in.)	10.05 mm (0.396 in.)
Shift fork shaft OD	9.972-9.987 mm (0.3926-0.3932 in.)	9.95 mm (0.392 in.)
Shift fork finger thickness	5.93-6.00 mm (0.233-0.236 in.)	5.8 mm (0.23 in.)

CHAPTER SIX

FUEL AND EXHAUST CARBURETOR SERVICE

Refer to **Table 10** for carburetor specifications and model numbers.

Disassembly/Assembly (Fourtrax 70)

Follow the disassembly and assembly procedure as described under *Disassembly/Assembly Type II* in Chapter Six in the main body of this book. The fuel strainer on the float bowl is the same as the one used on the 1985 ATC125M. Refer to **Table 10** for jet needle clip position.

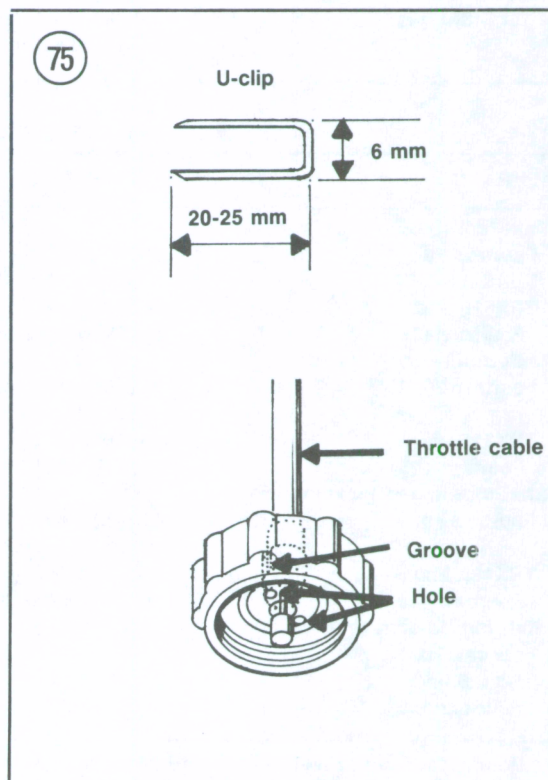
CARBURETOR ADJUSTMENTS

Float Adjustment (TRX125 and Fourtrax 125)

Perform the service procedure as described under *Float Adjustment* in Chapter Six in the main body of this book. Refer to **Table 10** for float height specification.

Needle Jet Adjustment (Fourtrax 70)

Perform the service procedure as described under *Needle Jet Adjustment* in Chapter Six in the main body of this book. Refer to **Table 10** for needle jet position.



Pilot Screw Adjustment (ATC70, 1987 Fourtrax 70)

Perform the service procedure as described in Chapter six of the main book with the exception of the preliminary adjustment and idle speed (**Table 10**). Follow the steps in the procedures specified for 1978-on ATC models.

Pilot Screw Adjustment (ATC110)

Perform the service procedure for this model in Chapter Six in the main body of this book with the exception of the preliminary adjustment.

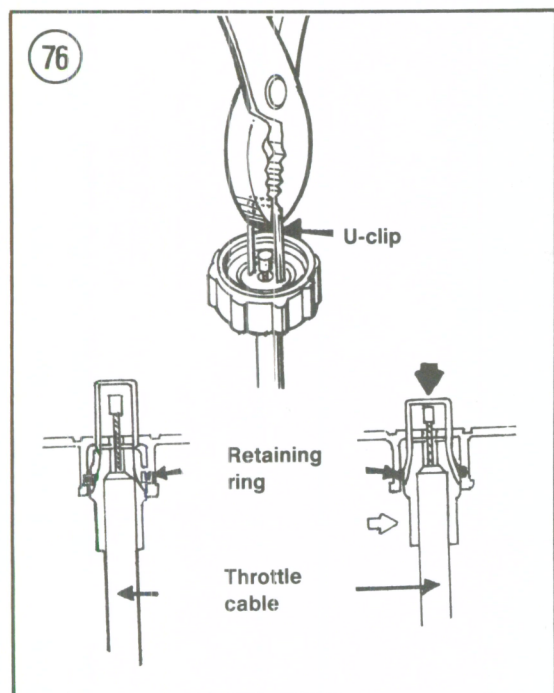
For preliminary adjustment, carefully turn the pilot screw in until it *lightly* seats and then back it out 1 1/4 turns.

Pilot Screw Adjustment (TRX125 and Fourtrax 125)

Perform the service procedure as described under *Pilot Screw Adjustment, 1981-on ATC110 and ATC125M* in Chapter Six in the main body of this book with the exception of the preliminary adjustment.

For preliminary adjustment, carefully turn the pilot screw in until it *lightly* seats and then back it out the following number of turns:

- a. 1985 models: 2 full turns.
- b. 1986 models: 1 3/4 turns.



High-elevation Adjustment (TRX125 and Fourtrax 125)

Perform the service procedure as described under *High-elevation Adjustment, All Other Models* in Chapter Six in the main body of this book with the exception of the main jet size, jet needle clip position and pilot screw setting. For these specifications, refer to **Table 11**.

THROTTLE CABLE

Removal/Installation (1986 Fourtrax 125)

Throttle cable removal and installation are the same as on previous ATC125M models with the exception of the way the throttle cable attaches to the carburetor top cap.

On 1986 models there are 2 different types of carburetor top caps and throttle cable assemblies. There is an integral type where the throttle cable and the carburetor top cap must be replaced as an assembly. The other type is the clip-on type and is covered in this procedure.

1. Remove the throttle cable from the ATV as described in Chapter Six in the main body of this book.
2. Using 1 mm (0.04 in.) diameter wire, make a U-clip as shown in **Figure 75**. Be sure to trim the ends of the U-clip as shown in **Figure 75**.
3. Rotate the carburetor top cap until the holes in the cap align with the grooves in the end of the throttle cable (**Figure 75**).
4. Insert the U-clip through the holes in the carburetor top cap and into the grooves in the cable end (**Figure 76**).
5. Press the U-clip in with a pair of pliers and expand the retaining ring to separate the throttle cable from the carburetor top cap (**Figure 76**).
6. Slowly withdraw the throttle cable from the carburetor top cap.
7. Check that the retaining ring is in the groove in the carburetor top cap.
8. Slide the new throttle cable through the hole in the carburetor top cap until the retaining ring seats in the cable end. Remove the clip.
9. Pull on the throttle cable to be sure it is secured by the retaining ring.

FUEL TANK

Removal/Installation (4-Wheel Models)

1. Place the ATV on level ground and set the parking brake or block the wheels so the vehicle will not roll in either direction.

2A. On Fourtrax 70 models, remove the seat/rear fender assembly as described in this supplement.

2B. On TRX125 and Fourtrax 125 models, remove the seat.

3A. On Fourtrax 70 models, remove the bolts securing the front fender at the rear.

3B. On TRX125 and Fourtrax 125 models, remove the bolts and nuts (A, **Figure 77**) securing the rear portion of the front fender. Remove the nuts and tie bar (B, **Figure 77**) at the top of the fuel tank.

4A. On Fourtrax 70 models, cover the middle portion of the sides of the fuel tank with masking or duct tape to protect the paint during the next step.

4B. On TRX125 and Fourtrax 125 models, cover the rear portion of the sides of the fuel tank with a soft cloth to protect the paint during the next step.

5. Disconnect one fuel line (**Figure 78**) at a time from the fuel shutoff valve and plug with a golf tee. Perform this step on both fuel lines.

6. Lift up on the rear of the front fender assembly then pull the fuel tank toward the rear and out of the frame and front fender assembly.

7. On Fourtrax 70 models, remove the fuel filler cap and cover the tank opening with duct tape.

8. Remove the bolt securing the rear of the fuel tank (**Figure 79**).

9. Inspect the rubber cushions (**Figure 80**) on the frame where the fuel tank is held in place. Replace as a set if either is damaged or starting to deteriorate.

10. Install by reversing these removal steps, noting the following.

11. Make sure the fuel tanks' locating brackets at the front of the fuel tank are correctly positioned onto the rubber cushions on the frame.

12. Check for fuel leaks.

EXHAUST SYSTEM

(1987 FOURTRAX 70)

Removal/Installation

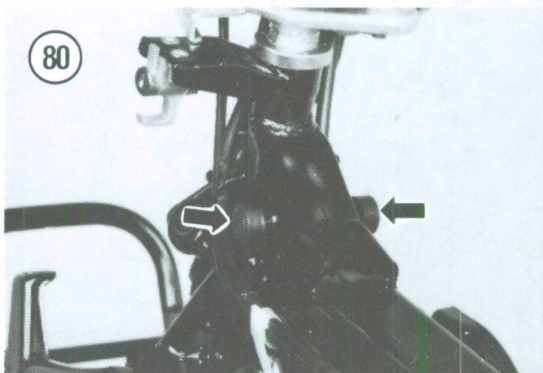
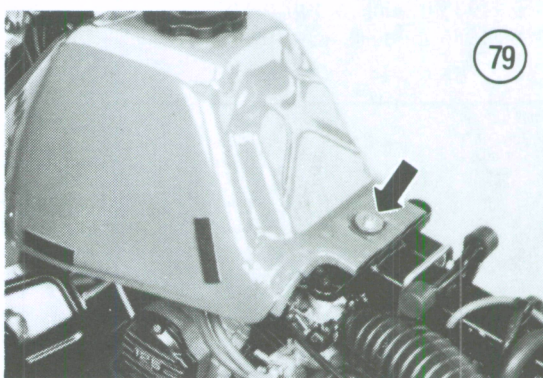
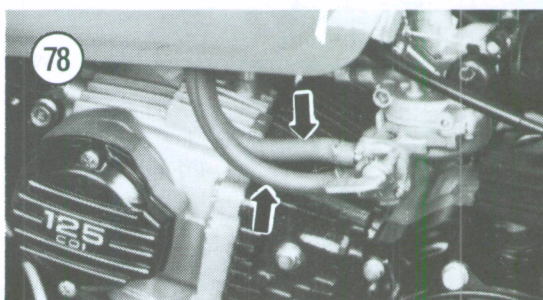
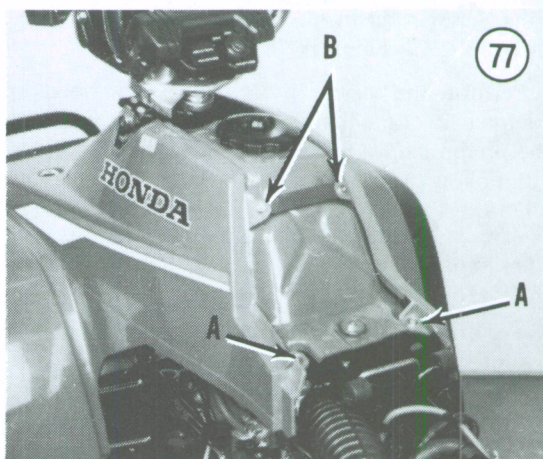
1. Place the ATV on level ground and set the parking brake or block the rear wheels so the vehicle will not roll in either direction.

2. Remove the seat/rear fender assembly.

3. Remove the right-hand rear wheel as described in Chapter Eight in the main body of this book.

4. Remove the bolts securing the rear brake cable guard and remove the guard.

5. Remove the screws securing the exhaust pipe protector next to the right-hand foot peg and remove the protector.



6. Remove the cap nuts and washers securing the exhaust pipe to the cylinder head.

7. Remove the bolts and washers securing the muffler to the frame.

8. Remove the exhaust pipe assembly from the frame.

9. Install by reversing these removal steps, noting the following.

10. Tighten the cap nuts on the cylinder head first then tighten the bolts on the frame. This will
- minimize the chances of an exhaust leak at the cylinder head.

11. Make sure the cylinder head gasket is in place.

12. Apply Loctite Lock N' Seal to the screw threads securing the protector before installation.

13. After installation is complete, start the engine and make sure there is no exhaust leak.

Table 10 CARBURETOR SPECIFICATIONS

FOURTRAX 70	
Model No.	PB86A
Main jet No.	62
Slow jet No.	38
Initial pilot screw opening	
1985-1986	1 3/8 turns out
1987	1 1/8 turns out
Needle jet clip position	3rd groove
Float level	10.7 mm (0.43 in.)
1985 ATC110	
Model No.	PD20A
Main jet No.	82
Slow jet No.	35
Initial pilot screw opening	1 1/4 turns out
Needle jet clip position	3rd groove
Float level	10.7 mm (0.43 in.)
TRX125 AND FOURTRAX 125	
Model No.	
1985	PB01B
1986*	PB01C
Main jet No.	95
Slow jet No.	38
Initial pilot screw opening	
1985	2 turns out
1986*	1 3/4 turns out
Needle jet clip position	3rd groove
Float level	10.5 mm (0.41 in.)
* Last year covered in this manual.	

Table 11 HIGH ELEVATION JET SIZE

TRX125 AND FOURTRAX 125			
Altitude (feet)	Main jet	Jet needle clip position	Pilot screw
0-5,000	95	3rd groove	Factory preset*
4,500-6,000	90	3rd groove	7/8 turns out from factory preset
6,000-10,000	88	3rd groove	1 full turn out from factory preset
* See Table 10 for factory preset position.			

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